

What is claimed is:

1. A housing part (10) for a drive unit, which housing part (10) is composed of a first component (11) and has a radial seal (28) formed onto it composed of a  
5 second, elastic component (60), which has a radial sealing surface (40) for sealing a housing in a watertight fashion, in which the housing part (10) and radial seal (28) are produced by means of an injection molding process, wherein at least one riser dome (36) is formed onto the radial seal (28) and extends from the radial sealing surface (40) in the axial direction (12).  
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2. The housing part (10) as recited in claim 1, wherein the – in particular two – riser domes (36) are situated radially inside the radial sealing surface (40).
- 15 3. The housing part (10) as recited in claim 1 or 2, wherein the radial sealing surface (40) has no fusion seam.
4. The housing part (10) as recited in one of the preceding claims, wherein the radial seal (28) is embodied as essentially rectangular in order to  
20 seal an essentially rectangular opening in the housing.
5. The housing part (10) as recited in one of the preceding claims, wherein one – in particular, precisely one – gating point (42) of the second component (60) is situated radially inside the radial seal (28).  
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6. The housing part (10) as recited in one of the preceding claims, wherein two connecting pieces (44) are situated extending from the gating point (42) to the middle of the long sides (35) of the approximately rectangular radial seal (28) and two riser domes (36) are situated approximately in the middle of its  
30 short sides (34).

7. The housing part (10) as recited in one of the preceding claims, characterized by means of detent elements (52) that are formed onto it, which are attachable to corresponding counterpart detent elements of the housing in order to fix the housing part (10) in place axially and in particular, the riser domes (36) are embodied in the form of axial play compensation elements (48) equipped with an axial stop surface (50) for the housing.

8. A method for manufacturing a housing part (10) with a radial seal (28) formed onto it – in particular according to one of claims 1 through 7 – in which, in a first step, the housing part (10) is injection molded out of a first component (11) and in a second step, the radial seal (28) composed of a second component (60) is injection molded onto the housing part (10), wherein during the injection of the second component (60), it first fills the volume of the radial seal (28) and then fills at least one riser dome (36) that extends axially beyond the axial span (41) of the radial sealing surface (40).

9. The method for manufacturing a housing part (10) with a radial seal (28) formed onto it as recited in claim 8, wherein the second component (60) is injected into the injection mold at a location radially inside the radial seal (28).

10. The method for manufacturing a housing part (10) with a radial seal (28) formed onto it as recited in one of claims 8 or 9, wherein a sensor (62) – in particular a pressure sensor or color sensor – is situated at an axial end (38) of the at least one riser dome (36) and, during the injection molding process, indicates whether the second component (60) has filled the riser dome (36).

11. An injection mold for manufacturing a housing part (10) with a radial seal (28) formed onto it as recited in one of claims 8 through 10,

wherein at least one continuous cavity for the radial seal (28) with a riser dome (36) is provided in the injection mold and an injection opening (42) is provided on the inside of the cavity for the radial seal (28).

- 5    12.    The injection mold as recited in claim 11,  
wherein the cavity for the radial seal (28) is essentially rectangular and it is possible to part the injection mold diagonal to the rectangular shape of the radial seal (28) for removal of the housing part (10).